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TITLE: WATER INK COMPOSITION FOR BALL POINT PEN
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INVENTOR-INFORMATION:

NAME
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ASSIGNEE-INFORMATION:

NAME	COUNTRY
MITSUBISHI PENCIL CO LTD	N/A

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ABSTRACT:

PURPOSE: The titled composition with good transfer printing property to a paper surface and high writing performance smoothly supplied without slip on paper, which contains a humic acid, a nitrohumic acid or a mixture thereof.

CONSTITUTION: A humic acid (A) of MW $10^{3} \sim 10^{6}$ having a representative molecular structure of formula II, and having an active group of formula I, a nitrohumic acid (B) of MW $10^{2} \sim 10^{5}$ having an active group of formula III and a representative molecular structure of formula IV, or a mixture of components A and B, is incorporated in a water ink composition prepared by compounding an aqueous solvent primarily

consisting of
water in which 5~20wt% water-soluble polyhydric alcohol is
incorporated,
with a water-soluble dye, an antiseptic and, if necessary, an anionic
or
nonionic surfactant, a water-soluble resin, etc.

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